

## CLAIMS

1 - Process of data exchange between devices linked to a network, characterized in that it comprises:

- 5           - a step (320) of searching, by each of at least two devices, for at least one media type representing at least one type of physical entity, directly accessible by said device,
- a step (335) of transmitting, by each device having carried out said search step to at least one other device capable of handling said media type, a list representing media found on said device during the search step and

- 10          - a step (345) of aggregating, by each device having carried out said search step, lists of media found and/or received independent of the device where said media are located.

2 – Process according to claim 1, characterized in that, during the aggregation step (345), the aggregated lists are organized by physical entity.

- 15          3 – Process according to either one of claims 1 or 2, characterized in that, during the aggregation step (345), the aggregated lists are organized by media type.

4 – Process according to any one of claims 1 to 3, characterized in that, during the search step (320), media subject to a broadcast limitation or ban are not taken into account.

- 20          5 – Process according to any one of claims 1 to 4, characterized in that, during the aggregation step (345), the aggregated list comprises, for each medium, a pointer representing the localization of said medium on the network.

6 – Process according to any one of claims 1 to 5, characterized in that, during the aggregation step (345), the aggregated list comprises, for each medium, an interface capable of handling said medium.

- 25          7 – Process according to any one of claims 1 to 6, characterized in that it comprises a step (360) of selecting a media output device.

8 – Process according to any one of claims 1 to 7, characterized in that it comprises a step of selecting (350), for at least one media output device, a medium represented in the aggregated list.

- 30          9 – Process according to claim 8, characterized in that said step (350) of selecting a medium comprises a step (351) of selection by a hand-held remote control (170).

10 – Process according to claim 9, characterized in that, during the step (351) of selection via a hand-held remote control (170), optical signals and radio signals are output by said remote control.

- 35          11 – Process according to either one of claims 9 or 10, characterized in that, in the course of the step (351) of selection via a hand-held remote control, three-dimensional images representing devices capable of outputting at least one media type are displayed, on said remote control.

12 – Process according to either one of claims 9 to 11, characterized in that, during the step (351) of selection via a hand-held remote control, a request is output for each device in the remote control's range to provide a response identifying it.

13 – Process according to either one of claims 9 to 12, characterized in that, during the step  
5 (351) of selection via a hand-held remote control, arrow keys and a confirmation key are utilized.

14 – Process according to any one of claims 9 to 13, characterized in that, following the step of selecting a medium (350), the device giving the most direct access to the selected medium transmits said medium to the device selected to output said medium.

10 15 - Device for exchanging data between devices linked to a network, characterized in that it comprises, in at least two of said devices:

- a means of searching for at least one media type representing at least one type of physical entity, directly accessible by said device;

- a means of transmitting, by at least one other device capable of handling said media  
15 type, a list representing media found on said device during the search means and

- a means of aggregating lists of media found and/or received independent of the device where said media are located.

16 – Device according to claim 15, characterized in that the aggregation means is adapted so that the aggregated lists are organized by physical entity.

20 17 – Device according to either one of claims 15 or 16, characterized in that the aggregation means is adapted so that the aggregated lists are organized by media type.

18 – Device according to any one of claims 15 to 17, characterized in that the search means is adapted to not take into account media subject to a broadcast limitation or ban.

25 19 – Device according to any one of claims 15 to 18, characterized in that the aggregation means is adapted so that the aggregated list comprises, for each medium, a pointer which represents the localization of said medium on the network.

20 – Device according to any one of claims 15 to 19, characterized in that the aggregation means is adapted so that the aggregated list comprises, for each medium, an interface capable of handling said medium.

30 21 – Device according to any one of claims 15 to 20, characterized in that it comprises a means of selecting a medium represented in the aggregated list.

22 – Device according to any one of claims 15 to 21, characterized in that it comprises a means of selecting a device for outputting a medium.

35 23 – Device according to claim 22, characterized in that said means of selecting a medium comprises a hand-held remote control.

24 – Device according to claim 23, characterized in that said hand-held remote control comprises an optical signal emitter and a radio signal emitter.

25 – Device according to either one of claims 23 or 24, characterized in that the hand-held remote control is adapted to display three-dimensional images representing devices capable of outputting at least one media type.

26 – Device according to any one of claims 23 to 25, characterized in that the hand-held  
5 remote control is adapted to output a request for each device in the remote control's range to provide a response identifying it.

27 – Device according to any one of claims 23 to 26, characterized in that at least one device is adapted so that the selection of a medium utilizes arrow keys and a confirmation key.

28 – Device according to any one of claims 15 to 27, characterized in that, where the  
10 selection of a medium involves a medium for which the device gives the most direct access to the selected medium, the means of transmission is adapted to transmit said medium to the device selected to output said medium.